

## WEST Search History

DATE: Monday, June 04, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L27	L2 and (((non-proprietary or (non near1 proprietary)) near4 (data near1 link\$)) or J1939 or CAN or MODBUS or (serial near1 standard near1 data near1 link\$) or ethernet)	25534
<input type="checkbox"/>	L26	L2 and L25	4
<input type="checkbox"/>	L25	encapsulat\$6 same L21	152
<input type="checkbox"/>	L24	L21 same encapsulat\$6 same extract\$6	1
<input type="checkbox"/>	L23	L22 and L21	1
<input type="checkbox"/>	L22	L14 same encapsulat\$6 same extract\$6	14
<input type="checkbox"/>	L21	(((non-proprietary or (non near1 proprietary)) near4 (data near1 link\$)) or J1939 or CAN or MODBUS or (serial near1 standard near1 data near1 link\$) or ethernet) same L18	5617
<input type="checkbox"/>	L20	(((non-proprietary or (non near1 proprietary)) near4 (data near1 link\$)) or J1939 or CAN or MODBUS or (serial near1 standard near1 data near1 link\$) or ethernet	4783182
<input type="checkbox"/>	L19	(non-proprietary or (non near1 proprietary)) near1 (data near1 link\$)	22
<input type="checkbox"/>	L18	(proprietary near1 (data near1 link\$)) or PDL\$	11151
<input type="checkbox"/>	L17	L16 same link\$	18
<input type="checkbox"/>	L16	L13 same l2	69
<input type="checkbox"/>	L15	(data near1 link\$) same L13	9
<input type="checkbox"/>	L14	(first near1 protocol\$) same (second near1 protocol\$)	3383
<input type="checkbox"/>	L13	tunnel\$6 same translat\$6 same (bridg\$6 or gateway\$ or switch\$6 or router\$)	505
<input type="checkbox"/>	L12	(convers\$6 or convert\$6 or translat\$6 or map\$6) same J1939 same ((data near1 link\$) or PDL\$)	21
<input type="checkbox"/>	L11	L2 and L10	22
<input type="checkbox"/>	L10	J1939 same (data near1 link\$)	275
<input type="checkbox"/>	L9	L8 same (data near1 link\$)	5
<input type="checkbox"/>	L8	L2 same J1939	55
<input type="checkbox"/>	L7	L2 and J1939	86
<input type="checkbox"/>	L6	L2 and L5	14
<input type="checkbox"/>	L5	L4 same J1939	23
<input type="checkbox"/>	L4	(proprietary near1 data near1 link\$) or PDL\$	11140
<input type="checkbox"/>	L3	L1 same L2	11

<input type="checkbox"/>	L2	protocol\$ near4 (convers\$6 or convert\$6 or translat\$6 or map\$6)	26019
<input type="checkbox"/>	L1	(J1939 near1 protocol\$)	130

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Generate Collection

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L12: Entry 9 of 21

File: PGPB

Sep 4, 2003

DOCUMENT-IDENTIFIER: US 20030167345 A1

TITLE: Communications bridge between a vehicle information network and a remote system

Summary of Invention Paragraph:

[0014] It is desirable to provide a communications bridge configured to convert any of one or more engine/vehicle data link communications protocols (e.g., J1939, J1587/J1708, etc.) to any of one or more computer-based remote system or unit communications protocols (e.g., RS-232, USB, etc.) to facilitate communications between any control computer carried by a motor vehicle and a computer-based remote system or unit. However, it has been discovered through experimentation that microprocessor-based communication bridges of this type suffer from a number of drawbacks. For example, due to the multiple-instruction-cycle nature and limited processing throughput of typical microprocessor-based architectures, microprocessor-based communication bridges often experience faults or failures when attempting to convert and transmit multiple-frame data messages. When this occurs, the message being converted and sent is aborted and therefore must be resent.

Summary of Invention Paragraph:

[0015] What is therefore needed is a communications bridge configured to convert any of one or more engine/vehicle data link communications protocols (e.g., J1939, J1587/J1708, etc.) to any of one or more computer-based remote system or unit communications protocols (e.g., RS-232, USB, etc.), but that does not suffer from the foregoing drawbacks.

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		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L13	(first near1 protocol\$) same (second near1 protocol\$) same L4	17
<input type="checkbox"/>	L12	(proprietary near1 data near1 link\$) or ((non-proprietary or (non near1 proprietary)) near1 data near1 link\$)	72
<input type="checkbox"/>	L11	MODBUS and L5	1
<input type="checkbox"/>	L10	CAN and L5	280
<input type="checkbox"/>	L9	J1939 and L5	1
<input type="checkbox"/>	L8	(first near1 protocol\$) same (second near1 protocol\$) same L5	6
<input type="checkbox"/>	L7	(first near1 protocol\$) same (second near1 protocol\$) same L6	1
<input type="checkbox"/>	L6	(module\$ or interface\$) same L5	74
<input type="checkbox"/>	L5	(gateway\$ or bridg\$6 or switch\$6 or router\$) same L4	281
<input type="checkbox"/>	L4	tunnel\$6 same L3	728
<input type="checkbox"/>	L3	encapsulat\$6 near1 (protocol\$ or message\$ or data)	9327
<input type="checkbox"/>	L2	L1 same J1939	1
<input type="checkbox"/>	L1	(encapsulat\$6 near1 protocol\$)	2533

END OF SEARCH HISTORY